



**PATENT APPLICATION  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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**Examiner:** Lamarre, Guy J.

**Application Serial No:** 10/636,008

**Art Group:** 2133

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**Patent No:** n/a

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**Title:** 16 QAM and 16 APSK TTCM (Turbo Trellis Coded Modulation) with minimum bandwidth efficiency of 3 bit/s/Hz using a rate 2/4 constituent encoder

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Date: 10/24/2005

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In response to an office action mailed on 08/25/2005 (Part of Paper No./Mail Date 20050819) regarding the above-identified U.S. utility patent application, the Applicant respectfully submits the following amendment and response.